

**Bunker Hill  
Mine Water  
Upgrade HDS Plant & Add Media Filters (2,500gpm) (Equivalent to Phase I  
CTP Masterplan)  
Order of Magnitude Cost Opinion**

**DATE: 11/29/2000  
PROJECT NO.: 152215.FS.02  
ESTIMATE BY: D. Hedglin**

DESCRIPTION	QTY	UNIT	TOTAL UNIT COST	TOTAL COST	COMMENTS
Building Complete	1	LS	318,750.00	\$318,750	85'x 50 @ \$75/sf
Electrical/I&C	1	LS	0.00	\$0	included
Mechanical	1	LS	0.00	\$0	included
Backflow Preventer	1	EA	10,000.00	\$10,000	allowance
Distribution Piping	1,000	LF	23.00	\$23,000	2" plastic
Paint	1	LS	5,000.00	\$5,000	misc painting allowance
<b>SUBTOTAL</b>				<b>\$4,319,374</b>	
<b>MISC ALLOWANCE</b>	<b>5%</b>			<b>\$215,969</b>	
<b>SUBTOTAL</b>				<b>\$4,535,343</b>	
<b>CONTINGENCY</b>	<b>20%</b>			<b>\$907,069</b>	
<b>SUBTOTAL</b>				<b>\$5,442,411</b>	
<b>MOBILIZATION</b>	<b>15%</b>			<b>\$816,362</b>	
<b>CONSTRUCTION TOTAL</b>				<b>\$6,258,773</b>	
<b>SALES TAX ON MATERIALS</b>	<b>5.0%</b>			<b>\$186,656</b>	
<b>ENGINEERING AND SUPPORT</b>	<b>20%</b>			<b>\$1,251,755</b>	
<b>CONSTRUCTION MANAGEMENT</b>	<b>8%</b>			<b>\$500,702</b>	
<b>CAPITAL TOTAL (ROUNDED)</b>				<b>\$8,198,000</b>	
<b>ANNUAL O&amp;M COST</b>			<b>\$763,000</b>		
<b>NPV OF ANNUAL O&amp;M COSTS (30 YEARS @ 7% INTEREST)</b>				<b>\$9,468,000</b>	
<b>TOTAL 30-YEAR PRESENT WORTH COST @ 7% INTEREST</b>				<b>\$17,666,000</b>	

**NOTES:**

Misc Allowance markup is to include items known to exist but cannot be quantified at this time.  
Contingency is for scope changes that are presently unforeseen.  
Mobilization includes bonds, insurance, temporary facilities, health & safety, demobilization, etc.

**NOTE:** The above cost opinion is in October 2000 dollars and does not include escalation.  
The order of magnitude cost opinion shown has been prepared for guidance in project evaluation at the time of preparation. The final costs of the project will depend on actual labor and material costs, actual site conditions, productivity, competitive market conditions, final project scope, final schedule and other variable factors. As a result, the final project costs will vary from those presented above. Because of these factors, funding needs must be carefully reviewed prior to making specific financial decisions or establishing final budgets.